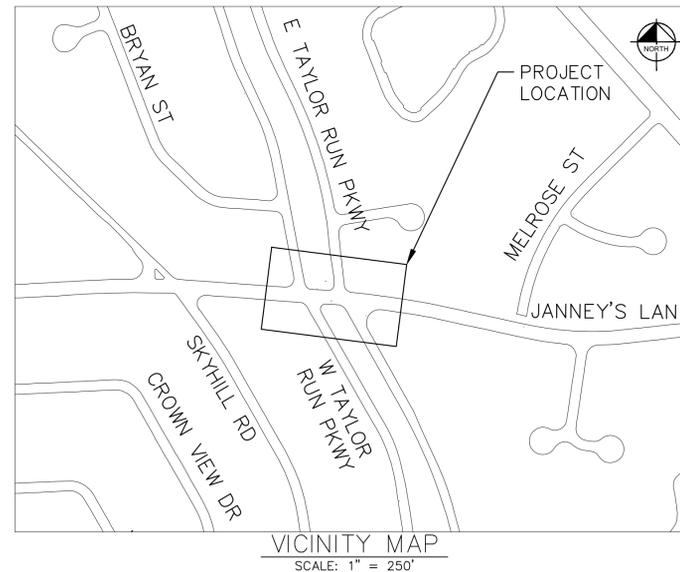


# DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES JANNEY'S LANE & TAYLOR RUN INTERSECTION IMPROVEMENTS

PREPARED FOR:



**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE DESIGN OF INTERSECTION IMPROVEMENTS AT THE UNSIGNALIZED INTERSECTIONS OF JANNEY'S LANE AND W TAYLOR RUN PKWY AND JANNEY'S LANE AND E TAYLOR RUN PKWY. THE DESIGN INCLUDES REALIGNING THE INTERSECTION. THE PROJECT ALSO INCLUDES CONSTRUCTION OF NEW CURB RAMP, STRIPED CROSSWALKS, NEW SIDEWALKS, NEW DRAINAGE INLETS, AND REPLACED DRAINAGE INLETS.

**INDEX OF SHEETS:**

- 1 COVER SHEET
- 2-3 GENERAL NOTES
- 4 EXISTING CONDITIONS
- 5 DEMOLITION PLAN
- 6 EROSION CONTROL PLAN
- 7 GEOMETRIC LAYOUT
- 8 SIGNING & MARKING PLAN
- 9 DRAINAGE AREA MAP
- 10 DRAINAGE & GRADING LAYOUT
- 11-14 AUTOTURN PLAN SHEETS
- 15-18 DETAILS

MISS UTILITY OF VIRGINIA



CALL BEFORE YOU DIG  
1.800.552.7001

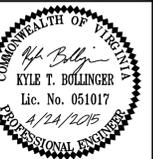
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SVCS.

APPROVED	DATE: _____
X _____ DIRECTOR	
RECOMMENDED FOR APPROVAL	DATE: _____
X _____ DEPUTY DIRECTOR OF OPERATIONS	
RECOMMENDED FOR APPROVAL	DATE: _____
X _____ DEPUTY DIRECTOR OF INFRASTRUCTURE & ENVIRONMENT	
RECOMMENDED FOR APPROVAL	DATE: _____
X _____ DEPUTY DIRECTOR OF TRANSPORTATION	

COVER SHEET

TAYLOR RUN/  
JANNEY'S LANE  
PREPARED FOR  
CITY OF ALEXANDRIA  
VIRGINIA

SHEET NUMBER  
1



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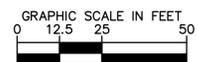
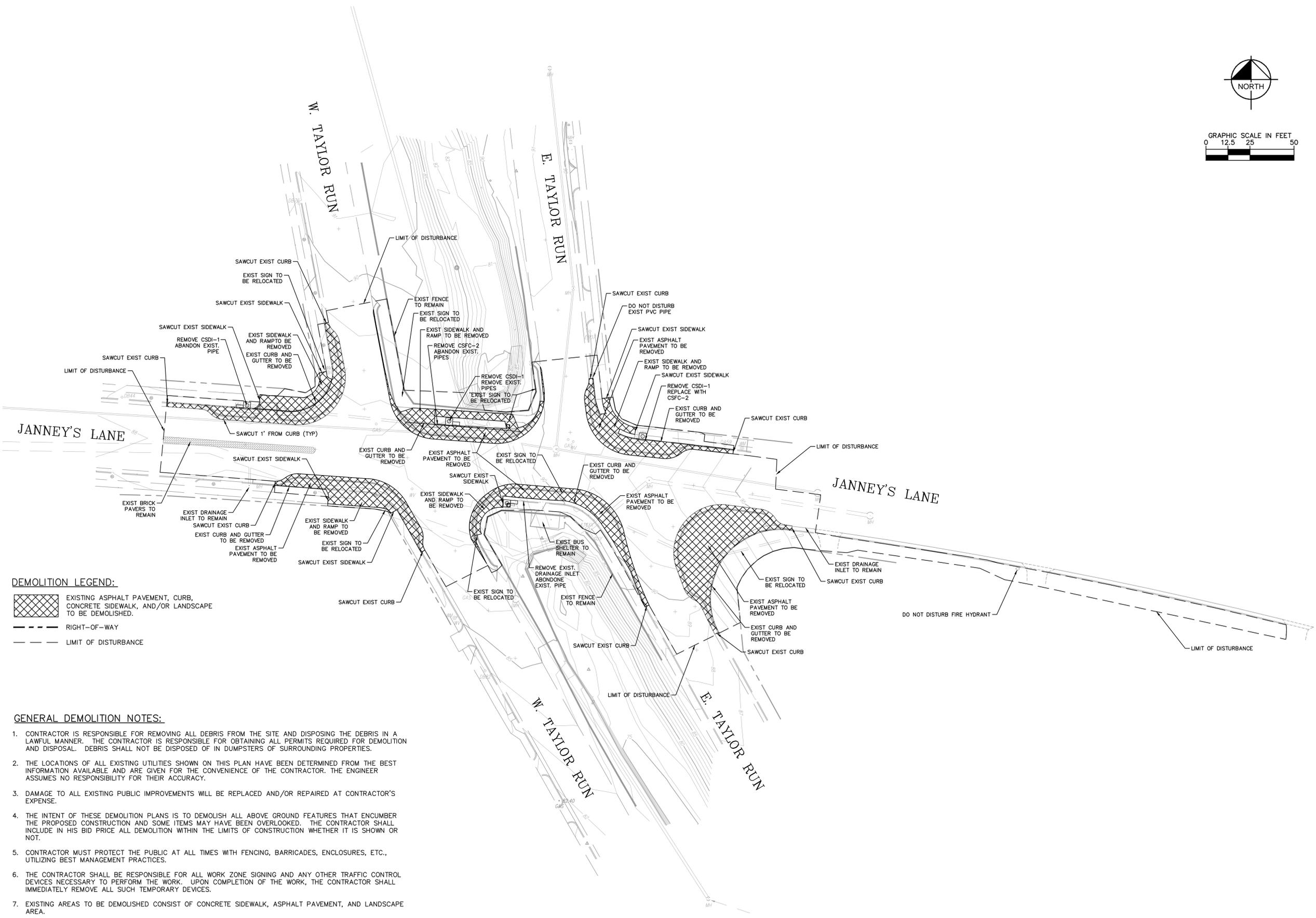
No.	REVISIONS	DATE	BY







Plotted By: Delia, Ted Sheet Set: Taylor Run Layout: CONCEPT LAYOUT April 24, 2015 11:13:06am K:\NVA\_TPTD\110104 - Alexandria On-Call\2020\_Taylor Run at Janney's Improvements\CAD\References\dem104020.dwg  
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**DEMOLITION LEGEND:**

- EXISTING ASPHALT PAVEMENT, CURB, CONCRETE SIDEWALK, AND/OR LANDSCAPE TO BE DEMOLISHED.
- RIGHT-OF-WAY
- LIMIT OF DISTURBANCE

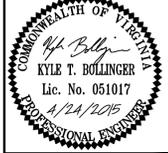
**GENERAL DEMOLITION NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. DEBRIS SHALL NOT BE DISPOSED OF IN DUMPSTERS OF SURROUNDING PROPERTIES.
2. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY.
3. DAMAGE TO ALL EXISTING PUBLIC IMPROVEMENTS WILL BE REPLACED AND/OR REPAIRED AT CONTRACTOR'S EXPENSE.
4. THE INTENT OF THESE DEMOLITION PLANS IS TO DEMOLISH ALL ABOVE GROUND FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AND SOME ITEMS MAY HAVE BEEN OVERLOOKED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL DEMOLITION WITHIN THE LIMITS OF CONSTRUCTION WHETHER IT IS SHOWN OR NOT.
5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., UTILIZING BEST MANAGEMENT PRACTICES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE SIGNING AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY REMOVE ALL SUCH TEMPORARY DEVICES.
7. EXISTING AREAS TO BE DEMOLISHED CONSIST OF CONCRETE SIDEWALK, ASPHALT PAVEMENT, AND LANDSCAPE AREA.
8. ALL EXISTING TREES ARE TO REMAIN AND BE PROTECTED FROM CONSTRUCTION ACTIVITIES UNLESS SPECIFIED OTHERWISE IN THESE PLANS.

No.	REVISIONS	DATE	BY

**Kimley»Horn**

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KHA PROJECT	110104020
DATE	4/23/15
SCALE	1:25
DESIGNED BY:	EJD
DRAWN BY:	EJD
CHECKED BY:	GDC

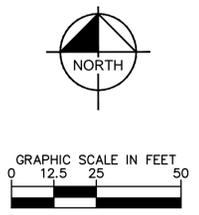
**DEMOLITION PLAN**

**TAYLOR RUN/  
 JANNEY'S LANE**  
 PREPARED FOR  
**CITY of ALEXANDRIA**  
VIRGINIA

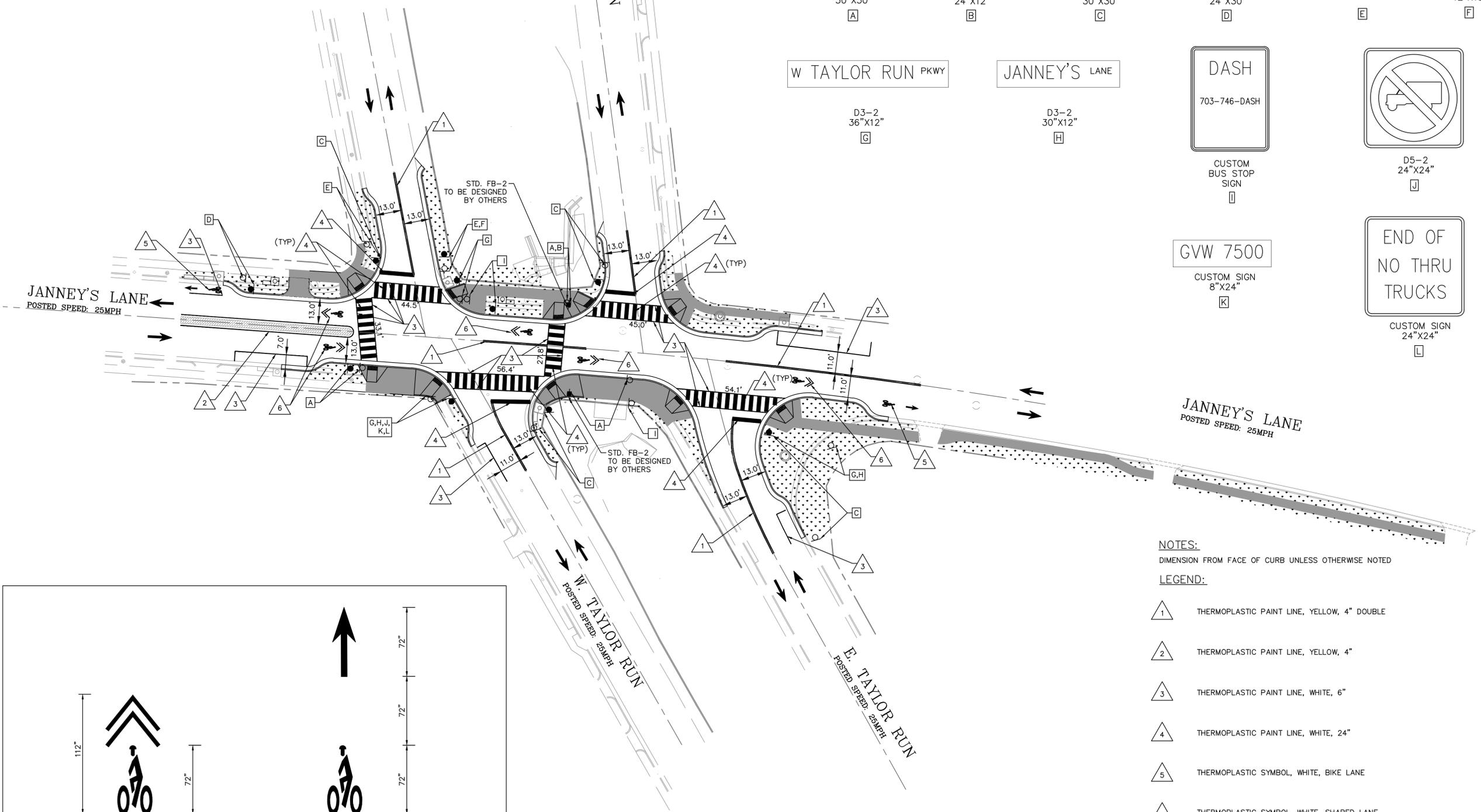
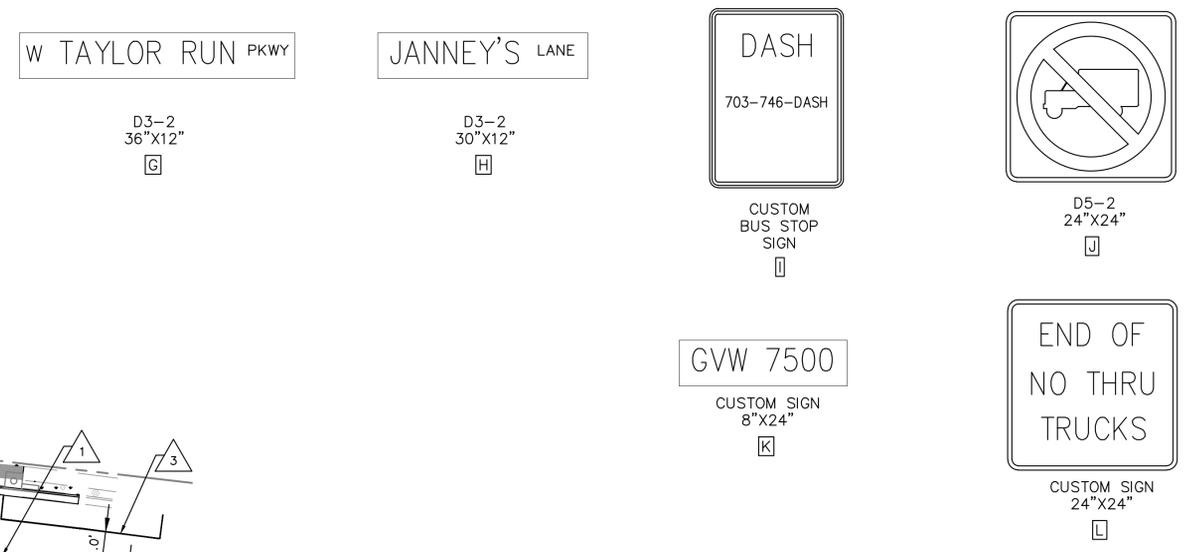
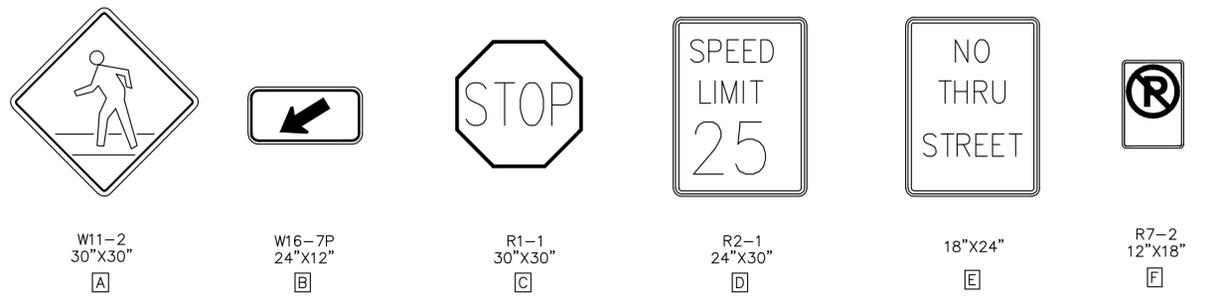




Plotted By: Delia, Ted Sheet: Set: Taylor Run Layout: CONCEPT LAYOUT April 24, 2015 11:13:42am K:\NVA\_IP\10104 - Alexandria On-Call\2015\_Improvements\CAD\References\10104020\_sign\_mark.dwg  
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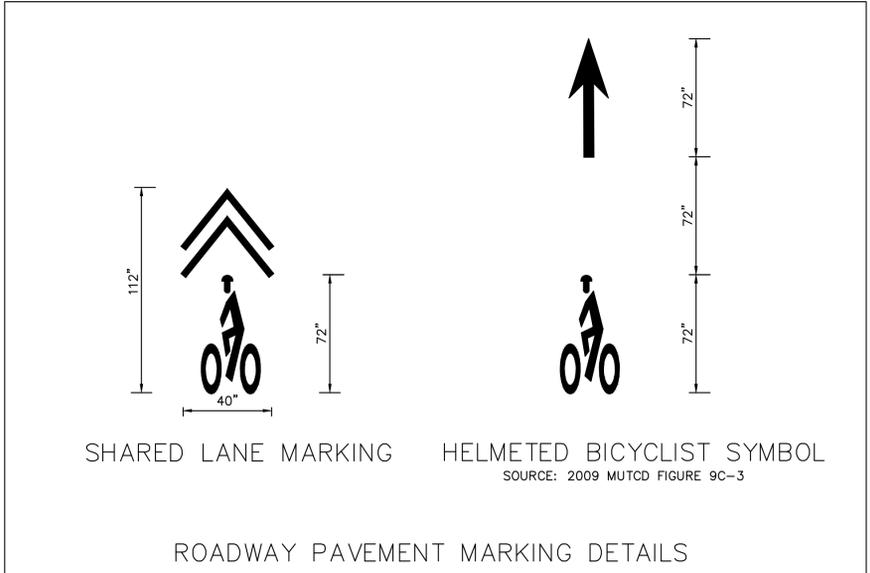
**SIGN LEGEND:**



**NOTES:**  
 DIMENSION FROM FACE OF CURB UNLESS OTHERWISE NOTED

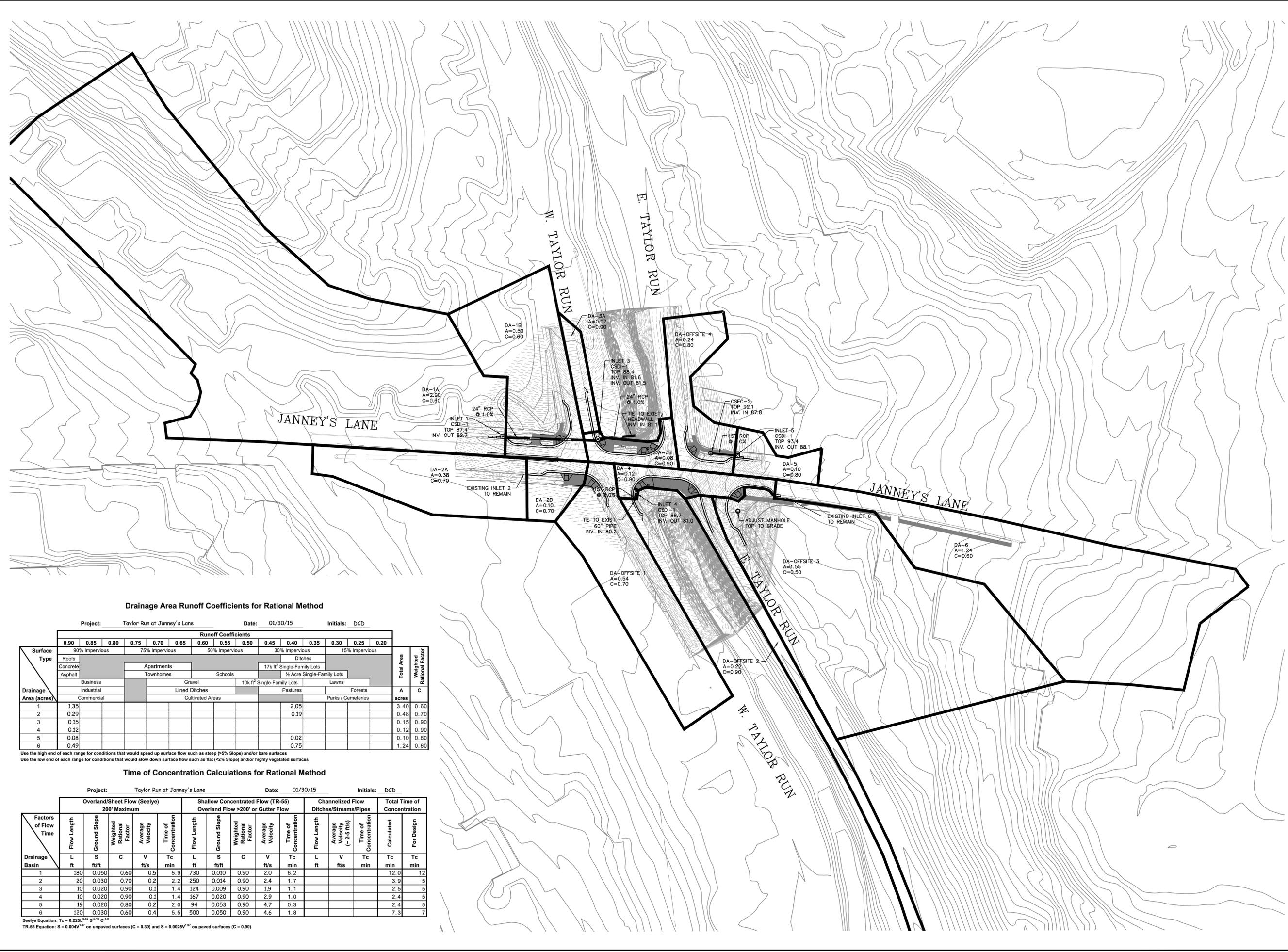
**LEGEND:**

- 1 THERMOPLASTIC PAINT LINE, YELLOW, 4" DOUBLE
- 2 THERMOPLASTIC PAINT LINE, YELLOW, 4"
- 3 THERMOPLASTIC PAINT LINE, WHITE, 6"
- 4 THERMOPLASTIC PAINT LINE, WHITE, 24"
- 5 THERMOPLASTIC SYMBOL, WHITE, BIKE LANE
- 6 THERMOPLASTIC SYMBOL, WHITE, SHARED LANE
- PROPOSED LOCATION OF SIGNS
- EXISTING LOCATION OF SIGNS



<h2 style="margin: 0;">Kimley»Horn</h2> <p style="font-size: 8px; margin: 0;">© 2015 KIMLEY-HORN AND ASSOCIATES, INC.                  11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191                  PHONE: 703-674-1300 FAX: 703-674-1350                  WWW.KIMLEY-HORN.COM</p>	<p style="font-size: 8px; margin: 0;">KHA PROJECT 110104020</p> <p style="font-size: 8px; margin: 0;">DATE 4/23/15</p> <p style="font-size: 8px; margin: 0;">SCALE 1:25</p> <p style="font-size: 8px; margin: 0;">DESIGNED BY: EJD</p> <p style="font-size: 8px; margin: 0;">DRAWN BY: EJD</p> <p style="font-size: 8px; margin: 0;">CHECKED BY: GDC</p>
	<h3 style="margin: 0;">SIGNING &amp; MARKING PLAN</h3>
<h3 style="margin: 0;">TAYLOR RUN/ JANNEY'S LANE</h3> <p style="font-size: 8px; margin: 0;">PREPARED FOR CITY of ALEXANDRIA</p> <p style="font-size: 8px; margin: 0;">ALEXANDRIA, VIRGINIA</p>	<p style="font-size: 8px; margin: 0;">SHEET NUMBER</p> <h1 style="margin: 0;">8</h1>

Plotted By: Delio, Ted Sheet: Set1:Taylor Run - Layout:CONCEPT\_LAYOUT - April 24, 2015 11:14:06am K:\NVA\_TPTD\110104 - Alexandria On-Call\2020\_Taylor Run at Janney's Improvements\CADReferences\dm104020.dwg  
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**Drainage Area Runoff Coefficients for Rational Method**

Project: Taylor Run at Janney's Lane Date: 01/30/15 Initials: DCD

Surface Type	Runoff Coefficients												Total Area	Weighted Rational Factor			
	0.90	0.85	0.80	0.75	0.70	0.65	0.60	0.55	0.50	0.45	0.40	0.35			0.30	0.25	0.20
90% Impervious																	
Concrete																	
Asphalt																	
Roofs																	
Apartment																	
Townhomes																	
Schools																	
17k ft <sup>2</sup> Single-Family Lots																	
10k ft <sup>2</sup> Single-Family Lots																	
1/2 Acre Single-Family Lots																	
Business																	
Industrial																	
Commercial																	
Gravel																	
Lined Ditches																	
Cultivated Areas																	
Pastures																	
Forests																	
Parks / Cemeteries																	
1	1.35															3.40	0.60
2	0.29															0.48	0.70
3	0.15															0.15	0.90
4	0.12															0.12	0.90
5	0.08															0.10	0.80
6	0.49															1.24	0.60

Use the high end of each range for conditions that would speed up surface flow such as steep (>5% Slope) and/or bare surfaces  
 Use the low end of each range for conditions that would slow down surface flow such as flat (<2% Slope) and/or highly vegetated surfaces

**Time of Concentration Calculations for Rational Method**

Project: Taylor Run at Janney's Lane Date: 01/30/15 Initials: DCD

Factors of Flow Time	Overland/Sheet Flow (Seelye) 200' Maximum					Shallow Concentrated Flow (TR-55) Overland Flow >200' or Gutter Flow					Channelized Flow Ditches/Streams/Pipes			Total Time of Concentration	
	Flow Length	Ground Slope	Weighted Rational Factor	Average Velocity	Time of Concentration	Flow Length	Ground Slope	Weighted Rational Factor	Average Velocity	Time of Concentration	Flow Length	Average Velocity	Time of Concentration	Calculated	For Design
	L ft	S ft/ft	C	V ft/s	Tc min	L ft	S ft/ft	C	V ft/s	Tc min	L ft	V ft/s	Tc min	Tc min	Tc min
1	180	0.050	0.60	0.5	5.9	730	0.010	0.90	2.0	6.2				12.0	12
2	20	0.030	0.70	0.2	2.2	250	0.014	0.90	2.4	1.7				3.9	5
3	10	0.020	0.90	0.1	1.4	124	0.009	0.90	1.9	1.1				2.5	5
4	10	0.020	0.90	0.1	1.4	167	0.020	0.90	2.9	1.0				2.4	5
5	19	0.020	0.80	0.2	2.0	94	0.053	0.90	4.7	0.3				2.4	5
6	120	0.030	0.60	0.4	5.5	500	0.050	0.90	4.6	1.8				7.3	7

Seelye Equation:  $T_c = 0.225L^{0.47} S^{-0.39} C^{1.49}$   
 TR-55 Equation:  $S = 0.004V^{1.49}$  on unpaved surfaces (C = 0.30) and  $S = 0.0025V^{1.49}$  on paved surfaces (C = 0.90)

<b>DRAINAGE AREA PLAN</b>	KHA PROJECT 110104020	DATE 4/23/15	SCALE 1:25	DESIGNED BY EJD	DRAWN BY EJD	CHECKED BY GDC
<b>TAYLOR RUN/ JANNEY'S LANE PREPARED FOR CITY OF ALEXANDRIA</b>						
SHEET NUMBER <b>9</b>						
© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM						REVISIONS No. _____ DATE BY _____

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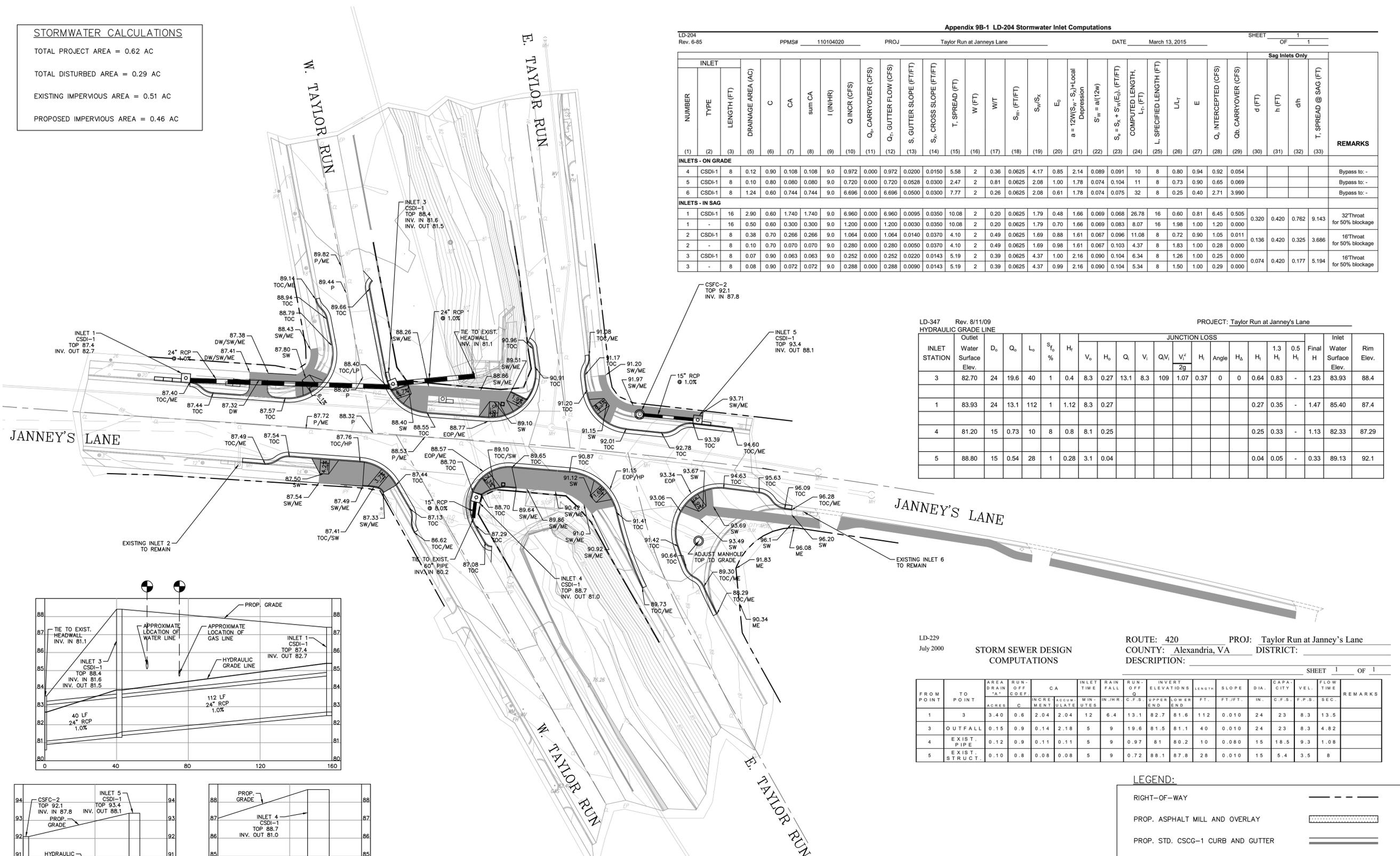
**STORMWATER CALCULATIONS**

TOTAL PROJECT AREA = 0.62 AC  
 TOTAL DISTURBED AREA = 0.29 AC  
 EXISTING IMPERVIOUS AREA = 0.51 AC  
 PROPOSED IMPERVIOUS AREA = 0.46 AC

**Appendix 9B-1 LD-204 Stormwater Inlet Computations**

LD-204 Rev. 6-85 PPMS# 110104020 PROJ Taylor Run at Janney's Lane DATE March 13, 2015 SHEET 1 OF 1

NUMBER	TYPE	LENGTH (FT)	DRAINAGE AREA (AC)	C	CA	sum CA	I (INHR)	Q INCR (CFS)	Q <sub>c</sub> CARRYOVER (CFS)	C <sub>1</sub> GUTTER FLOW (CFS)	S <sub>1</sub> GUTTER SLOPE (FT/FT)	S <sub>2</sub> CROSS SLOPE (FT/FT)	T <sub>1</sub> SPREAD (FT)	W (FT)	W/T	S <sub>w</sub> (FT/FT)	S <sub>w</sub> /S <sub>1</sub>	E <sub>1</sub>	a = 12W(S <sub>w</sub> - S <sub>1</sub> )H <sub>1</sub> Local Depression	S <sub>w</sub> = a/(12W)	S <sub>1</sub> = S <sub>1</sub> + S <sub>w</sub> (E <sub>1</sub> ) (FT/FT)	COMPUTED LENGTH, L <sub>1</sub> (FT)	L <sub>1</sub> SPECIFIED LENGTH (FT)	L <sub>1</sub> /L	E	Q <sub>i</sub> INTERCEPTED (CFS)	Q <sub>i</sub> CARRYOVER (CFS)	d (FT)	h (FT)	d/h	T <sub>1</sub> SPREAD @ SAG (FT)	REMARKS				
																																	Sag Inlets Only			
<b>INLETS - ON GRADE</b>																																				
4	CSDI-1	8	0.12	0.90	0.108	0.108	9.0	0.972	0.000	0.972	0.0200	0.0150	5.58	2	0.36	0.0625	4.17	0.85	2.14	0.089	0.091	10	8	0.80	0.94	0.92	0.054								Bypass to: -	
5	CSDI-1	8	0.10	0.80	0.080	0.080	9.0	0.720	0.000	0.720	0.0528	0.0300	2.47	2	0.81	0.0625	2.08	1.00	1.78	0.074	0.104	11	8	0.73	0.90	0.65	0.069								Bypass to: -	
6	CSDI-1	8	1.24	0.60	0.744	0.744	9.0	6.696	0.000	6.696	0.0500	0.0300	7.77	2	0.26	0.0625	2.08	0.61	1.78	0.074	0.075	32	8	0.25	0.40	2.71	3.990								Bypass to: -	
<b>INLETS - IN SAG</b>																																				
1	CSDI-1	16	2.90	0.60	1.740	1.740	9.0	6.960	0.000	6.960	0.0095	0.0350	10.08	2	0.20	0.0625	1.79	0.48	1.66	0.069	0.068	26.78	16	0.60	0.81	6.45	0.505								32' Throat for 50% blockage	
1	-	16	0.50	0.60	0.300	0.300	9.0	1.200	0.000	1.200	0.0030	0.0350	10.08	2	0.20	0.0625	1.79	0.70	1.66	0.069	0.083	8.07	16	1.98	1.00	1.20	0.000									16' Throat for 50% blockage
2	CSDI-1	8	0.38	0.70	0.266	0.266	9.0	1.064	0.000	1.064	0.0140	0.0370	4.10	2	0.49	0.0625	1.69	0.88	1.61	0.067	0.096	11.08	8	0.72	0.90	1.05	0.011									16' Throat for 50% blockage
2	-	8	0.10	0.70	0.070	0.070	9.0	0.280	0.000	0.280	0.0050	0.0370	4.10	2	0.49	0.0625	1.69	0.98	1.61	0.067	0.103	4.37	8	1.83	1.00	0.28	0.000									16' Throat for 50% blockage
3	CSDI-1	8	0.07	0.90	0.063	0.063	9.0	0.252	0.000	0.252	0.0220	0.0143	5.19	2	0.39	0.0625	4.37	1.00	2.16	0.090	0.104	6.34	8	1.26	1.00	0.25	0.000									16' Throat for 50% blockage
3	-	8	0.08	0.90	0.072	0.072	9.0	0.288	0.000	0.288	0.0090	0.0143	5.19	2	0.39	0.0625	4.37	0.99	2.16	0.090	0.104	5.34	8	1.50	1.00	0.29	0.000									



LD-347 Rev. 8/11/09 HYDRAULIC GRADE LINE PROJECT: Taylor Run at Janney's Lane

INLET STATION	Outlet Water Surface Elev.	D <sub>0</sub>	Q <sub>0</sub>	L <sub>0</sub>	S <sub>0</sub> %	H <sub>1</sub>	JUNCTION LOSS										Final H	Water Surface Elev.	Rim Elev.		
							V <sub>0</sub>	H <sub>0</sub>	Q <sub>1</sub>	V <sub>1</sub>	Q <sub>1</sub> /V <sub>1</sub>	V <sub>1</sub> <sup>2</sup> /2g	H <sub>1</sub>	Angle	H <sub>d</sub>	H <sub>i</sub>				H <sub>1</sub>	H <sub>1</sub>
3	82.70	24	19.6	40	1	0.4	8.3	0.27	13.1	8.3	109	1.07	0.37	0	0	0.64	0.83	-	1.23	83.93	88.4
1	83.93	24	13.1	112	1	1.12	8.3	0.27								0.27	0.35	-	1.47	85.40	87.4
4	81.20	15	0.73	10	8	0.8	8.1	0.25								0.25	0.33	-	1.13	82.33	87.29
5	88.80	15	0.54	28	1	0.28	3.1	0.04								0.04	0.05	-	0.33	89.13	92.1

LD-229 July 2000 STORM SEWER DESIGN COMPUTATIONS  
 ROUTE: 420 PROJ: Taylor Run at Janney's Lane  
 COUNTY: Alexandria, VA DISTRICT:  
 DESCRIPTION:  
 SHEET 1 OF 1

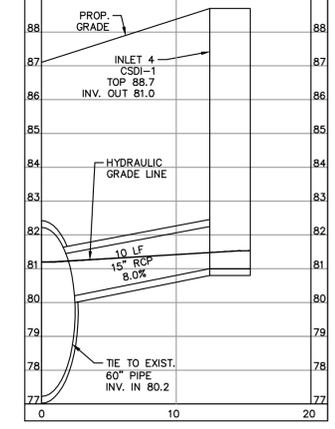
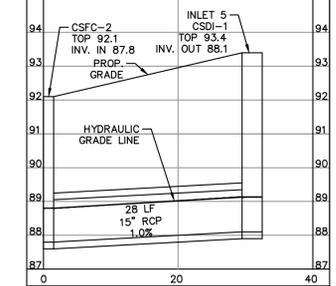
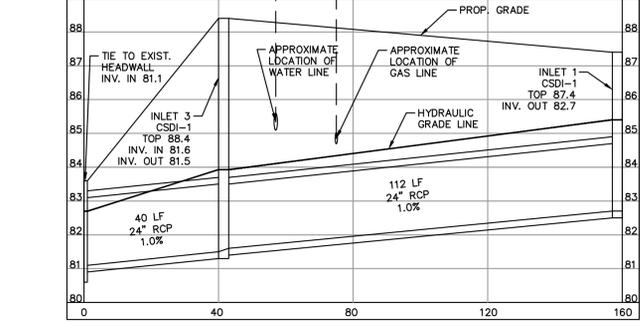
FROM POINT	TO POINT	AREA DRAIN AC	RUN-OFF COEFF	CA	INLET TIME MIN	RAIN FALL IN/HR	RUN-OFF Q C.F.S.	INVERT ELEVATIONS		LENGTH FT.	SLOPE FT./FT.	DIA. IN.	CAPA. CITY C.F.S.	VEL. F.P.S.	FLOW TIME SEC.	REMARKS
								UPPER END	LOWER END							
1	3	3.40	0.6	2.04	2.04	12	6.4	13.1	82.7	81.6	112	0.010	24	23	8.3	13.5
3	OUTFALL	0.15	0.9	0.14	2.18	5	9	19.6	81.5	81.1	40	0.010	24	23	8.3	4.82
4	EXIST. PIPE	0.12	0.9	0.11	0.11	5	9	0.97	81	80.2	10	0.080	15	18.5	9.3	1.08
5	EXIST. STRUCT.	0.10	0.8	0.08	0.08	5	9	0.72	88.1	87.8	28	0.010	15	5.4	3.5	8

**LEGEND:**

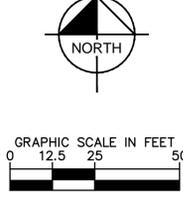
- RIGHT-OF-WAY
- PROP. ASPHALT MILL AND OVERLAY
- PROP. STD. CSCG-1 CURB AND GUTTER
- EX. CURB AND GUTTER
- PROP. STD. CSSW-1 SIDEWALK
- PROP. SEEDING AREA/GREEN SPACE
- PROP. VDOT STD. CG-12 ADA CURB RAMP WITH STD. RAISED DETECTABLE WARNING SURFACE
- PROP. STD. CSDI-1 or 1A DRAINAGE INLET
- PROP. STD. CSFC-2 STORM SEWER MANHOLE TOP
- TEST PIT/FIELD VERIFICATION REQ'D.

**GRADING KEYNOTES**

- ME = MATCH EXISTING
- TOC = TOP OF CURB
- EOP = EDGE OF PAVEMENT
- P = PAVEMENT
- SW = SIDEWALK
- DW = DRIVE WAY



**\*NOTE:**  
 STORMWATER PROFILES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AND SHALL NOTIFY THE OWNER OF ANY UTILITY CONFLICTS BEFORE BEGINNING CONSTRUCTION.



**Kimley»Horn**

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KHA PROJECT  
110104020

DATE  
4/23/15

SCALE  
1:25

DESIGNED BY  
EJD

DRAWN BY  
EJD

CHECKED BY  
GDC

DRAINAGE AND GRADING LAYOUT

TAYLOR RUN/  
JANNEY'S LANE

PREPARED FOR  
CITY OF ALEXANDRIA

ALEXANDRIA, VIRGINIA

SHEET NUMBER

10

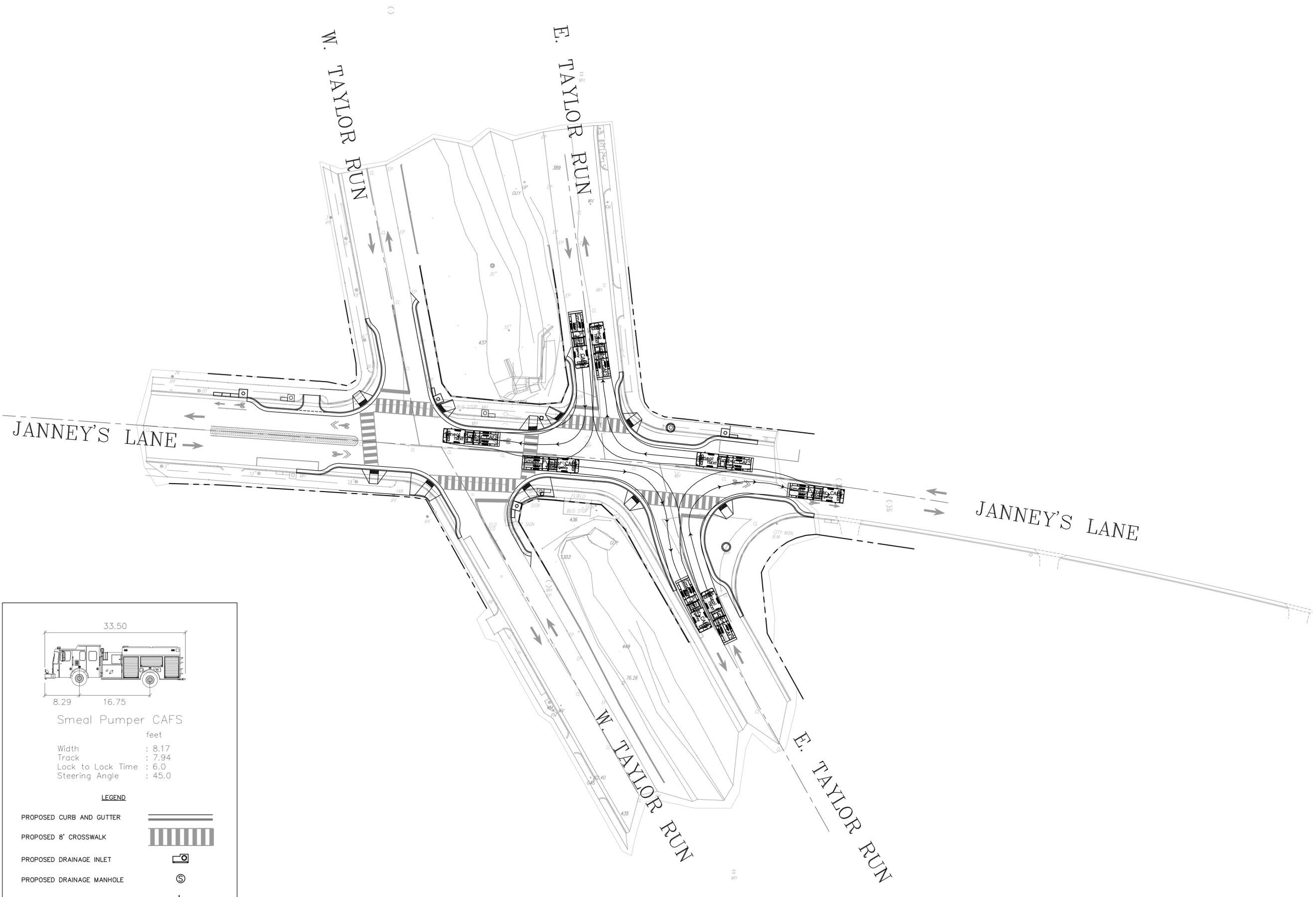
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**Smeal Pumper CAFS**  
 feet  
 Width : 8.17  
 Track : 7.94  
 Lock to Lock Time : 6.0  
 Steering Angle : 45.0

**LEGEND**

- PROPOSED CURB AND GUTTER
- PROPOSED 8' CROSSWALK
- PROPOSED DRAINAGE INLET
- PROPOSED DRAINAGE MANHOLE

GRAPHIC SCALE IN FEET  
 0 12.5 25 50



KHA PROJECT 110104020	DATE 4/23/15	DESIGNED BY: EJD	CHECKED BY: GDC
	SCALE 1:25	DRAWN BY: EJD	

**AUTOTURN  
 E. TAYLOR RUN  
 RIGHT TURNS**

**TAYLOR RUN/  
 JANNEY'S LANE  
 PREPARED FOR  
 CITY of ALEXANDRIA**  
 VIRGINIA

**Kimley»Horn**  
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 11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191  
 PHONE: 703-674-1300 FAX: 703-674-1350  
 WWW.KIMLEY-HORN.COM

**Professional Engineer**  
 Kyle T. Bollinger  
 Lic. No. 051017  
 4/24/2015

REVISIONS	DATE	BY

SHEET NUMBER  
**11**



Plotted By: Delio, Ted Sheet: Set: Taylor Run Layout: AT\_W-RT April 24, 2015 11:14:39am K:\NVA\_IP10\110104 - Alexandria On-Coll\020\_Taylor Run at Janney's Improvements\CAD\References\des104020.dwg  
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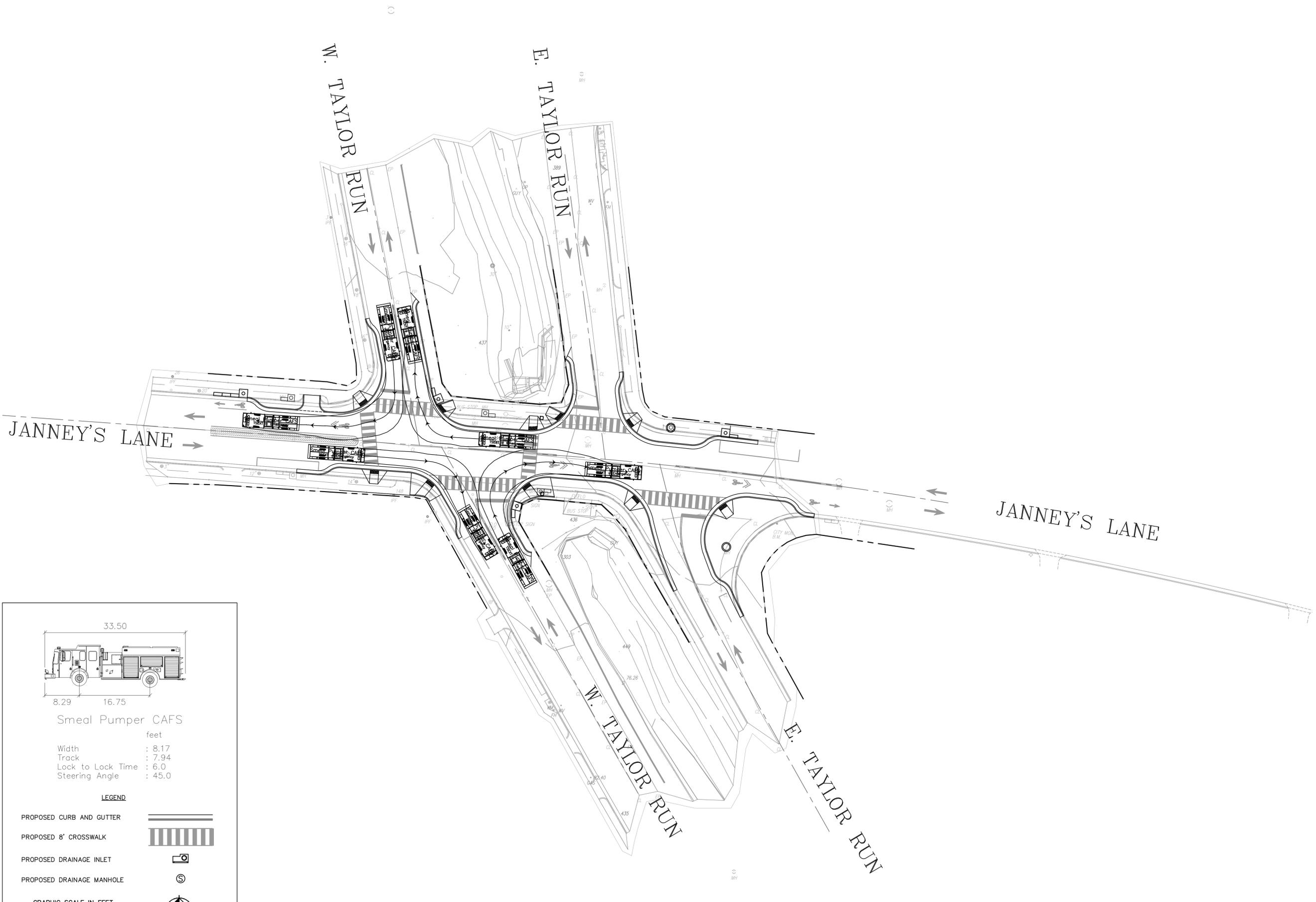
**Smeal Pumper CAFS**  
 feet  
 Width : 8.17  
 Track : 7.94  
 Lock to Lock Time : 6.0  
 Steering Angle : 45.0

**LEGEND**

- PROPOSED CURB AND GUTTER
- PROPOSED 8' CROSSWALK
- PROPOSED DRAINAGE INLET
- PROPOSED DRAINAGE MANHOLE

GRAPHIC SCALE IN FEET  
 0 12.5 25 50

NORTH



KHA PROJECT 110104020	DATE 4/23/15	DESIGNED BY: EJD DRAWN BY: EJD CHECKED BY: GDC			© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM	No.	REVISIONS	DATE	BY
TAYLOR RUN/ JANNEY'S LANE PREPARED FOR CITY of ALEXANDRIA VIRGINIA			AUTOTURN W. TAYLOR RUN RIGHT TURNS						
SHEET NUMBER			13						

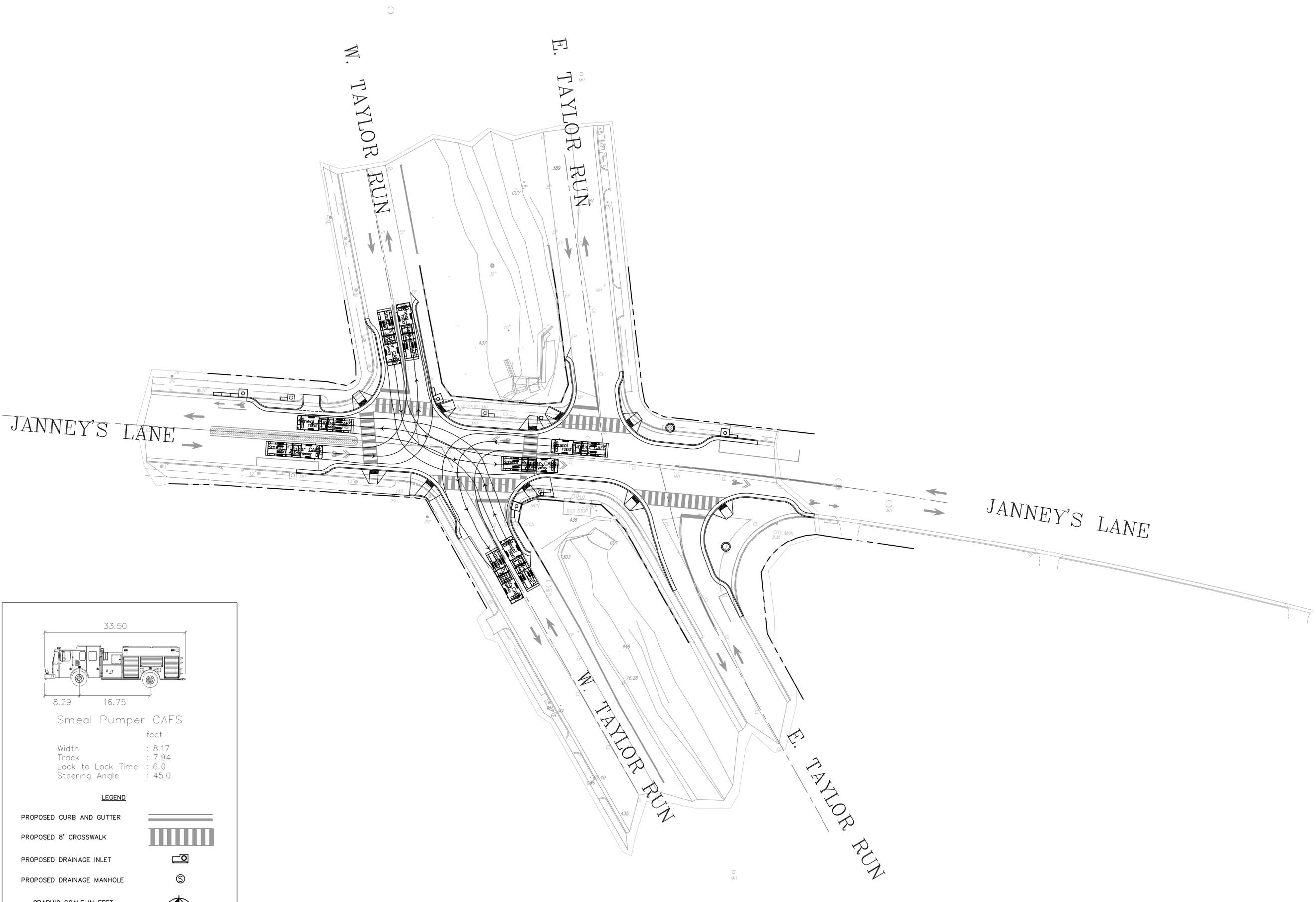
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**Smeal Pumper CAFS**  
 feet  
 Width : 8.17  
 Track : 7.94  
 Lock to Lock Time : 6.0  
 Steering Angle : 45.0

**LEGEND**

- PROPOSED CURB AND GUTTER
- PROPOSED 8' CROSSWALK
- PROPOSED DRAINAGE INLET
- PROPOSED DRAINAGE MANHOLE

GRAPHIC SCALE IN FEET  
 0 12.5 25 50



KHA PROJECT 110104020	DATE 4/23/15	SCALE 1:25	DESIGNED BY: EJD	CHECKED BY: GDC
			DRAWN BY: EJD	
<b>AUTOTURN W. TAYLOR RUN LEFT TURNS</b>				
<b>TAYLOR RUN/ JANNEY'S LANE PREPARED FOR CITY OF ALEXANDRIA</b> ALEXANDRIA, VIRGINIA				
SHEET NUMBER				14
				© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY-HORN.COM
COMMONWEALTH OF VIRGINIA 				REVISIONS No. _____ DATE _____ BY _____

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**Typical Traffic Control**  
**Lane Closure on a Two-Lane Roadway Using Flaggers**  
**(Figure TTC-23.0)**

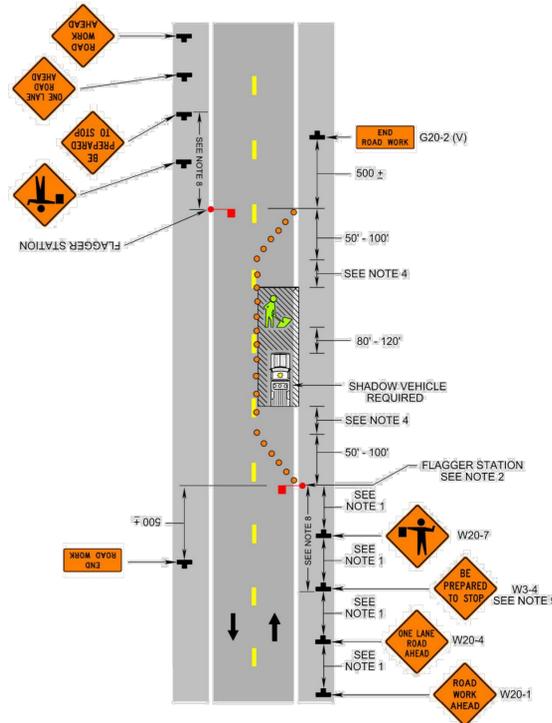
**NOTES**

- Guidance:**
1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.
  2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.
- Option:**
3. Where Right-of-Way or geometric conditions prevent the use of 48" x 48" signs, 36" x 36" signs may be used.
- Standard:**
4. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).
  5. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).
  6. Cone spacing shall be at the following:

Location	Posted Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'

7. A shadow vehicle with at least one high intensity amber rotating, oscillating, or strobe light shall be parked 80'-120' in advance of the first work crew.
- Option:**
8. A supplemental flagger may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.
- Guidance:**
9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign, then the signs should be readjusted at greater distances.
  10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).
- Standard:**
11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).
- Option:**
12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
  13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

**Lane Closure on a Two-Lane Roadway Using Flaggers**  
**(Figure TTC-23.0)**

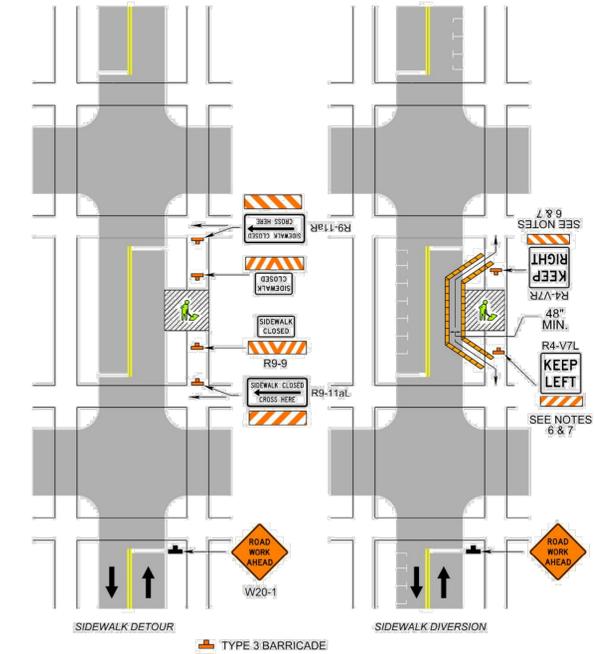


**Typical Traffic Control**  
**Sidewalk Closure and Bypass Sidewalk Operation**  
**(Figure TTC-35.0)**

**NOTES**

- Standard:**
1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
- Guidance:**
2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.
  3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
  4. Temporary markings should be considered for operations exceeding three days in duration.
- Option:**
5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
  6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.
  7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.
- Standard:**
8. All sidewalk closures shall be closed with Type 3 Barricades.

**Sidewalk Closure and Bypass Sidewalk Operation**  
**(Figure TTC-35.0)**

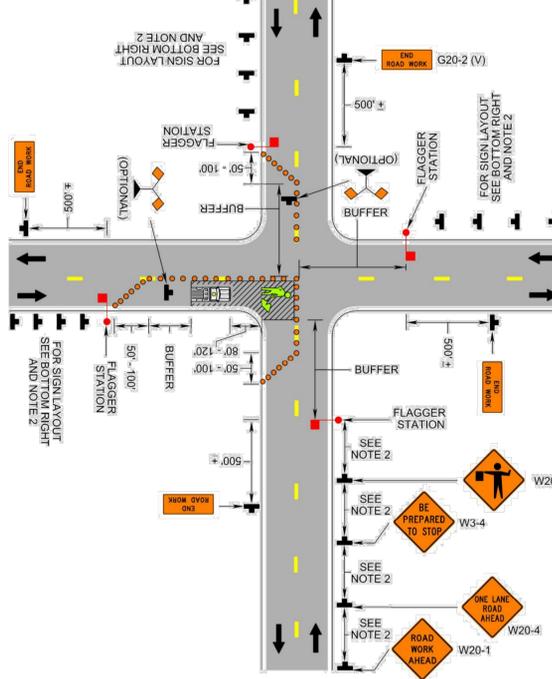


**Typical Traffic Control**  
**Lane Closure Operation in an Intersection**  
**(Figure TTC-28.0)**

**NOTES**

- Guidance:**
- a. Obtain the services of law enforcement personnel.
  - b. Detour the effective routes to other roads and streets as approved and directed by the Regional Traffic Engineer.
  - c. Place a state certified flagger on each leg of the intersection controlling a single lane of traffic. Appropriate signing as shown should be used for law enforcement and flagging operations. For detour signs see Figure TTC-34.
2. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.
- Standard:**
3. Channelizing device spacing shall be on 20' centers or less.
- Guidance:**
4. If room permits, a shadow vehicle with at least one rotating amber light or high intensity amber strobe light should be parked 80'-120' in advance of the first work crew.
- Standard:**
5. If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator.
  6. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber strobe lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals or amber oscillating lights shall be used.
- Guidance:**
7. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.
- Support:**
8. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

**Lane Closure Operation in an Intersection**  
**(Figure TTC-28.0)**

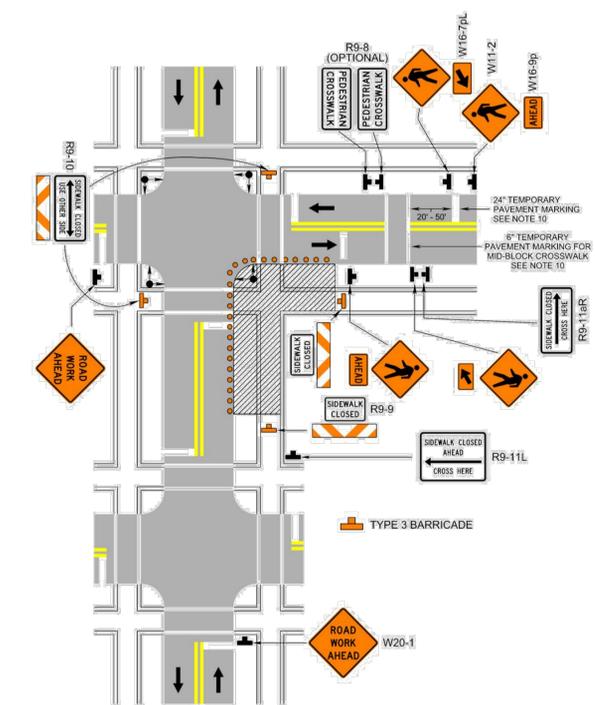


**Typical Traffic Control**  
**Crosswalk Closure and Pedestrian Detour Operation**  
**(Figure TTC-36.0)**

**NOTES**

- Standard:**
1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.
  2. Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.
- Guidance:**
3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.
  4. Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.
  5. Temporary markings should be considered for operations exceeding three days in duration.
  6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
  7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
  8. In order to maintain the systematic use of the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs in a jurisdiction, the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs may be used in TTC zones.
- Standard:**
9. All sidewalk closures shall be closed with Type 3 Barricades.
- Support:**
10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD for optional stop lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.

**Crosswalk Closure and Pedestrian Detour Operation**  
**(Figure TTC-36.0)**



<p><b>Kimley»Horn</b></p> <p>1013 KIMLEY HORN ROAD, ARLINGTON, VA 22204          11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191          PHONE: 703-674-1300 FAX: 703-674-1350          WWW.KIMLEY-HORN.COM</p>	<p><b>MOT STANDARDS</b></p> <p>TAYLOR RUN/          JANNEY'S LANE          PREPARED FOR          CITY of ALEXANDRIA</p>
<p>Kyle T. Dolinger          Lic. No. 051017          4/24/2015          PROFESSIONAL ENGINEER</p>	<p><b>MOT STANDARDS</b></p>
<p>KHA PROJECT: 110104020          DATE: 4/23/15          SCALE: N.T.S.          DESIGNED BY: EJD          DRAWN BY: EJD          CHECKED BY: GDC</p>	<p>REVISIONS</p> <p>DATE</p> <p>BY</p>
<p>SHEET NUMBER  <b>15</b></p>	

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CG-12

**GENERAL NOTES:**

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. DETECTABLE WARNING TO BE CLASS A-3 CONCRETE (CLASS A-4 IF PRECAST) WITH SLP RESISTANT INTEGRAL SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2 FOOT IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL. OTHER TYPES OF MATERIAL WITH THE TRUNCATED DOMES DETECTABLE WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
3. SLOPING SIDES OF CURB RAMP MAY BE PROVIDED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. RAMP FLOOR IS PRECAST. HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLOOR SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
5. REQUIRED BARS ARE TO BE NO. 5 X 8' PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR. MINIMUM DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1/2".
6. CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
7. CURB RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER AN ACCESSIBLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY CROSSES A CURB REGARDLESS OF WHETHER SIDEWALK IS EXISTING, PROPOSED, OR NONEXISTENT. THEY MUST BE LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER AND SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, EXISTING LIGHT POLES, FIRE HYDRANTS, STOP SIGNS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED STABLE FIRM AND SLP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
8. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
9. TYPICAL CONCRETE SIDEWALK IS 4" THICK WHEN THE ENTRANCE RADI CANNOT ACCOMMODATE THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY TRUCK TRAFFIC REFER TO STANDARD CG-13 COMMERCIAL ENTRANCE (HEAVY TRUCK TRAFFIC) FOR CONCRETE DEPTH.
10. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH. WHEN ONLY ONE CURB RAMP IS PROVIDED FOR TWO CROSSINGS (DIAGONAL), A 4' x 4' LANDING AREA SHALL BE PROVIDED FOR WALKWAY/WHEELCHAIR INTO THE CROSSWALK WITHOUT THE TRAVELWAY THIS 4' x 4' LANDING AREA MAY INCLUDE THE GUTTER PAN.
11. ALL CASES WHERE CURB RAMPS INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS THE DETECTABLE WARNING DETAIL SHALL BE PROVIDED FOR PERPENDICULAR CROSSWALK WITHIN THE MARKED CROSSWALK AREA.
12. DETECTABLE WARNING SHALL BE PROVIDED FOR PERPENDICULAR CROSSWALK WITHIN THE MARKED CROSSWALK AREA.

**CG-12 DETECTABLE WARNING SURFACE (GENERAL NOTES)**

VDOT ROAD AND BRIDGE STANDARDS  
SHEET 1 OF 5 REVISION DATE 203.05 7/11  
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE 105 502

CG-12

**CG-12 DETECTABLE WARNING SURFACE TYPE A (PERPENDICULAR) APPLICATION**

VDOT ROAD AND BRIDGE STANDARDS  
REVISION DATE SHEET 2 OF 5 7/11 203.06

SPECIFICATION REFERENCE 105 502

WP-2

**PAVEMENT WIDENING**

VDOT ROAD AND BRIDGE STANDARDS  
SHEET 1 OF 1 REVISION DATE 303.02

SPECIFICATION REFERENCE 315

CG-12

**CG-12 DETECTABLE WARNING SURFACE TYPE B (PARALLEL) APPLICATION**

VDOT ROAD AND BRIDGE STANDARDS  
SHEET 3 OF 5 REVISION DATE 203.07 7/11  
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE 105 502

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	5" CURB	6" CURB
0	4	8	8	8
1	5	7	7	7
2	6	6	6	6
3	8	9	9	9
4	8	12	12	12
5	11	15	15	15
6	14	15	15	15

CG-12

**CG-12 DETECTABLE WARNING SURFACE TYPE C (PARALLEL & PERPENDICULAR) APPLICATION**

VDOT ROAD AND BRIDGE STANDARDS  
REVISION DATE SHEET 4 OF 5 7/11 203.08

SPECIFICATION REFERENCE 105 502

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	5" CURB	6" CURB
0	2	4	4	4
1	2	5	5	5
2	3	5	5	5
3	3	6	6	6
4	4	8	8	8
5	5	10	10	10
6	7	14	14	14
7	13	15	15	15
8	15	15	15	15

**STANDARD DETAILS**

VDOT ROAD AND BRIDGE STANDARDS  
REVISION DATE SHEET 4 OF 5 7/11 203.08

SPECIFICATION REFERENCE 105 502

REVISIONS  
TRANSPORTATION & ENVIRONMENTAL SERVICES DEPARTMENT ALEXANDRIA VIRGINIA  
**CURB AND GUTTER AND COPING CURB**  
CSDG-1 PAGE 24

TAYLOR RUN/  
 JANNEY'S LANE  
 PREPARED FOR  
 CITY OF ALEXANDRIA  
 ALEXANDRIA, VIRGINIA

KIMLEY-HORN & ASSOCIATES, INC.  
 1013 KIMLEY-HORN DRIVE, SUITE 400, RESTON, VA 20191  
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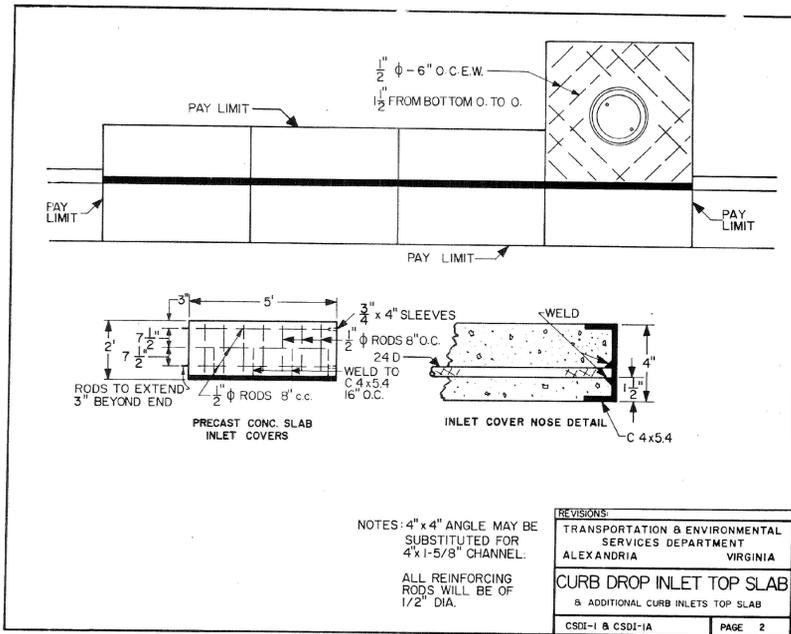
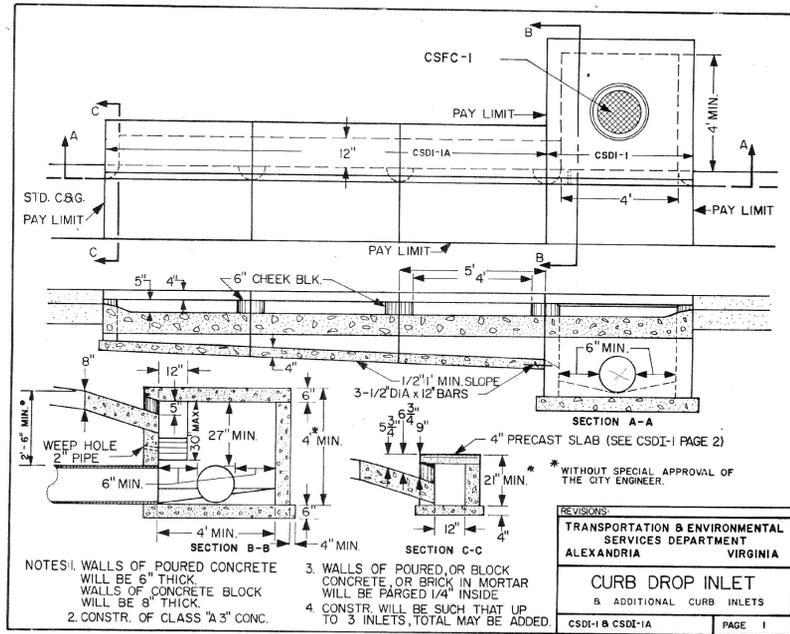
KYLE T. DOLLINGER  
 Lic. No. 051017  
 1/24/2015  
 PROFESSIONAL ENGINEER

KHA PROJECT 110104020  
 DATE 4/23/15  
 SCALE N.T.S.  
 DESIGNED BY: EJD  
 DRAWN BY: EJD  
 CHECKED BY: GDC

SHEET NUMBER  
 16

REVISIONS  
 No. DATE BY

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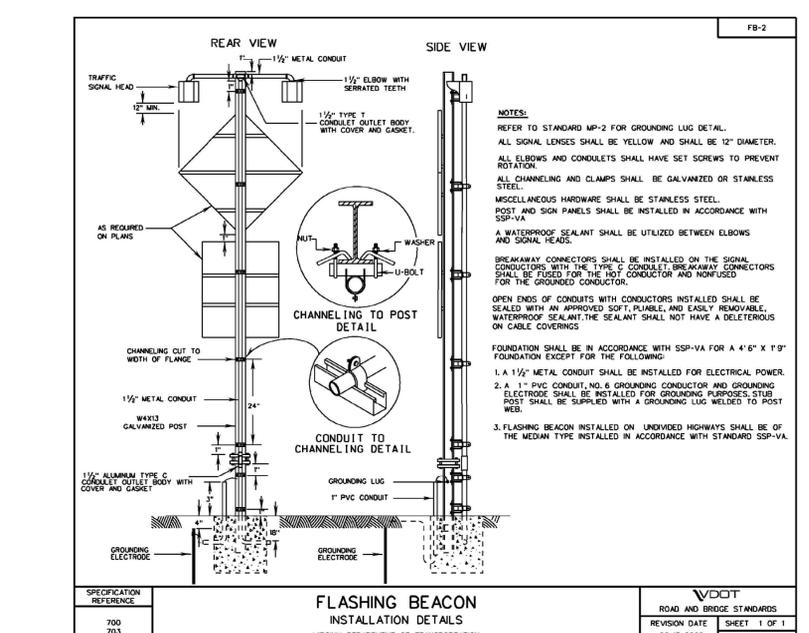
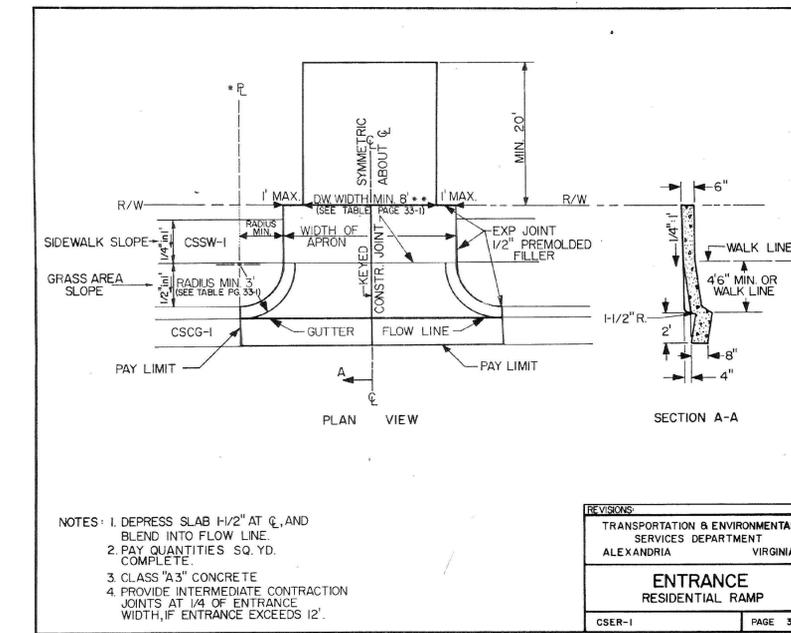
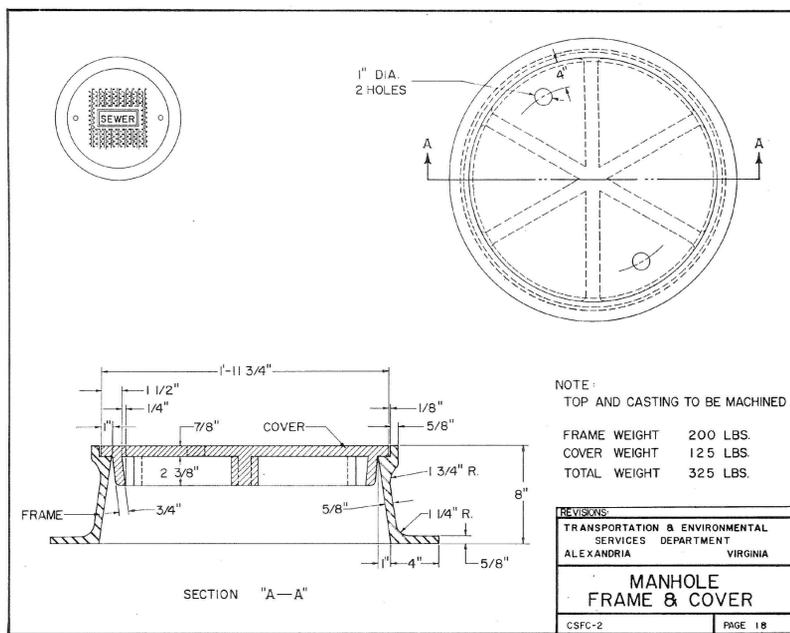
CLASS OF STREET	LOCAL				COLLECTOR				ARTERIAL	
	MINOR	MAJOR	RESIDENTIAL	PRIMARY	MINOR	MAJOR	RESIDENTIAL	PRIMARY	W/ CURB PARK LANE	W/O CURB PARK LANE
TYPE OF LANE AGAINST CURB	W/ CURB PARK LANE									
MIN. WIDTH FT. **	8	9	10	12	9	10	10	12	12	16
MIN. RADIUS FT. *	3	5	5	7	5	7	5	7	7	10

\* RADIUS SHALL BE IN FRONT OF THE PROPERTY SERVED BY THE DRIVEWAY WHENEVER POSSIBLE. JOINT DRIVEWAY MAY BE APPROVED, BUT MIN. WIDTH OF APRON IS REQUIRED ON EACH SIDE OF LOT LINE.  
 \*\* WIDTH OF DRIVEWAY ON PROPERTY AT END OF APRON MAY NOT BE LESS THAN 8', OR 2' LESS THAN THE ABOVE WIDTH WHICHEVER IS GREATER. WHERE EVEN FURTHER REDUCTION IN WIDTH OF DRIVEWAY IS DESIRED ON LONG DRIVEWAYS A 10 TO 1 MIN. TRANSITION IN WIDTH MUST BE USED TO REACH SAID REDUCED WIDTH.

NOTE: UPON WRITTEN REQUEST TO THE DIRECTOR OF T & E S, VARIANCES FROM THE MINIMUM DRIVEWAY STANDARDS MAY BE GRANTED PROVIDED THAT STRICT APPLICATION OF THE REQUIREMENTS WILL EFFECTIVELY PROHIBIT OR UNREASONABLY RESTRICT THE USE OF THE PROPERTY; AND, PROVIDED THAT SUCH VARIANCE WILL NOT BE OF SUBSTANTIAL DETRIMENT TO ADJACENT PROPERTY. APPLICANT TO NOTIFY ADJACENT PROPERTY OWNERS OF DRIVEWAY REQUEST FOR ALL CURB CUTS AT LEAST 14 DAYS IN ADVANCE OF APPROVAL BY T & E S.

APPEALS FROM DECISIONS OF THE DIRECTOR OF T & E S MAY BE MADE IN WRITING TO THE TRAFFIC & PARKING BOARD BY THE APPLICANT OR AN ADJACENT PROPERTY OWNER OF THE PROPOSED DRIVEWAY.

**REVISIONS:**  
 TRANSPORTATION & ENVIRONMENTAL SERVICES DEPARTMENT ALEXANDRIA VIRGINIA  
**RESIDENTIAL CURB CUTS MINIMUM STANDARDS**  
 CSER-1 PAGE 33



KHA PROJECT 110104020  
 DATE 4/23/15  
 SCALE N.T.S.  
 DESIGNED BY: EJD  
 DRAWN BY: EJD  
 CHECKED BY: GDC

**Kimley»Horn**  
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 11400 COMMERCE PARK DRIVE, SUITE 703-674-1350  
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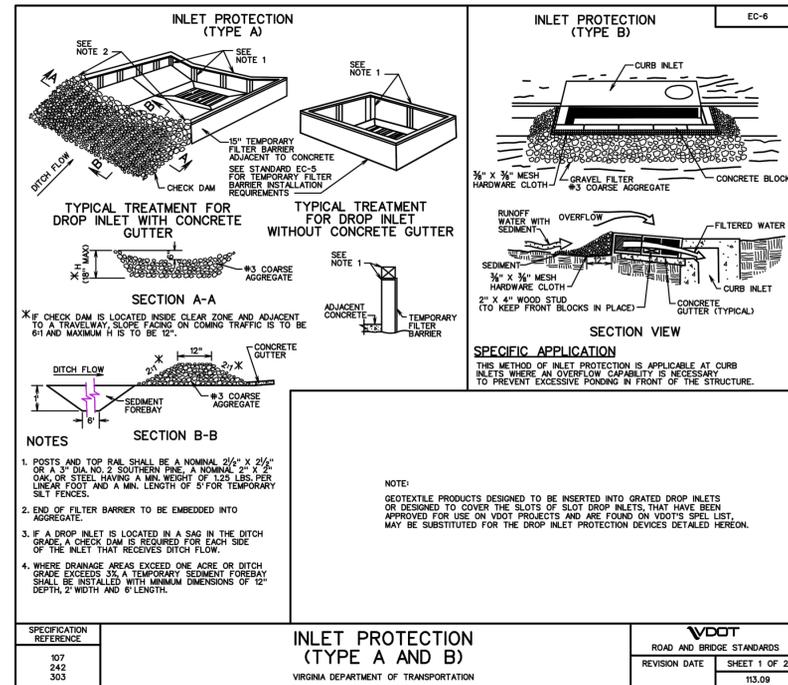
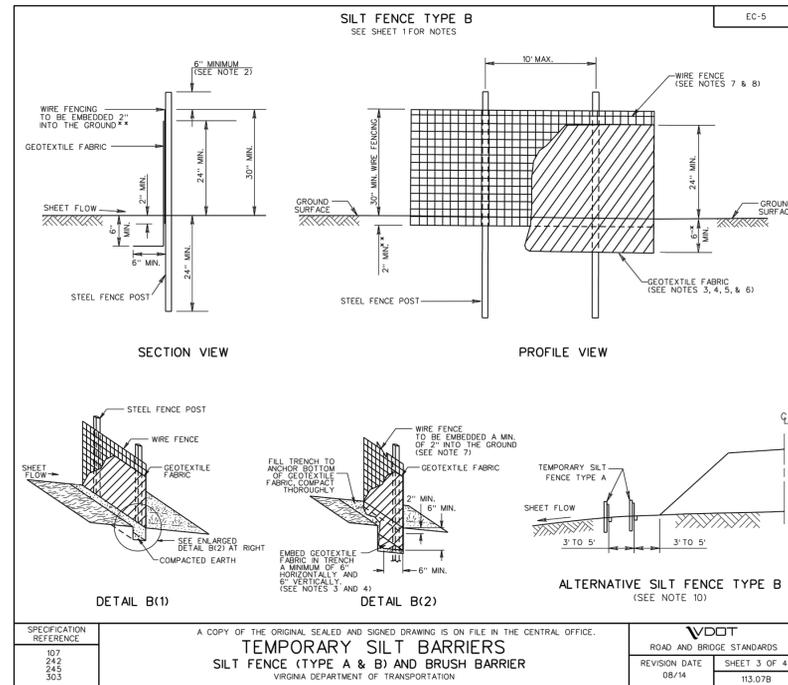
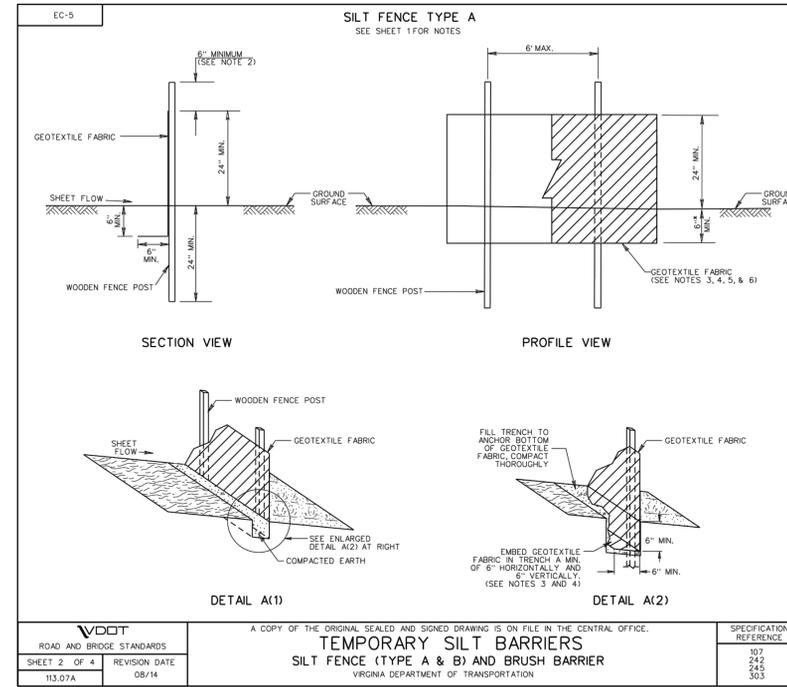
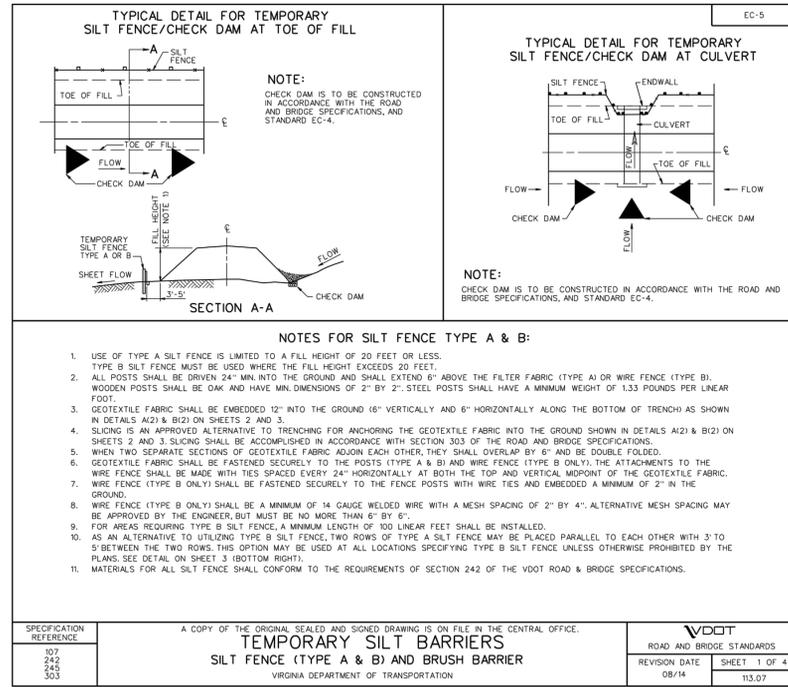
COMMONWEALTH OF VIRGINIA  
 KYLE T. DOLLINGER  
 Lic. No. 051017  
 1/24/2015  
 PROFESSIONAL ENGINEER

**STANDARD DETAILS**

TAYLOR RUN/  
 JANNEY'S LANE  
 PREPARED FOR  
 CITY OF ALEXANDRIA  
 VIRGINIA

SHEET NUMBER  
 17

Plotted By: Delia, Ted Sheet: Silt, Taylor Run Layout: CONCEPT LAYOUT, April 24, 2015 11:15:13am, K:\NVA\_TPT\110104 - Alexandria Improvements\CAD References\ecs-ds1104020.dwg  
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<b>Kimley»Horn</b>	1013 KIMLEY»HORN/KIMLEY»HORN/ARB, ASSOCIATES, INC. 11400 COMMERCE PARK DRIVE, SUITE 400, RESTON, VA 20191 PHONE: 703-674-1300 FAX: 703-674-1350 WWW.KIMLEY»HORN.COM				KHA PROJECT 110104020	DATE 4/23/15	SCALE N.T.S.
<b>TAYLOR RUN/ JANNEY'S LANE</b> PREPARED FOR <b>CITY OF ALEXANDRIA</b> VIRGINIA	<b>EROSION CONTROL STANDARDS</b>		DESIGNED BY: EJD DRAWN BY: EJD CHECKED BY: GDC	SHEET NUMBER <b>18</b>	REVISIONS No. _____ DATE _____		

SPECIFICATION REFERENCE 107 242 245 303	A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE. <b>TEMPORARY SILT BARRIERS</b> <b>SILT FENCE (TYPE A &amp; B) AND BRUSH BARRIER</b> VIRGINIA DEPARTMENT OF TRANSPORTATION	<b>VDOT</b> ROAD AND BRIDGE STANDARDS	REVISION DATE 08/14	SHEET 3 OF 4 113.07B
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